

<b>Substitute Form PTO-1449</b> (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 06666-077001	Application No. 09/848,778
		Applicant Beerel, et al.	
		Filing Date May 3, 2001	Group Art Unit 2661

**Information Disclosure Statement**  
**by Applicant**  
(Use several sheets if necessary)

(37 CFR §1.98(b))

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

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**Foreign Patent Documents or Published Foreign Patent Applications**

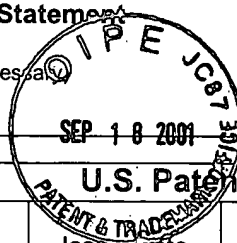
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AJ							
	AK							
	AL							
	AM							
	AN							

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AQ	Forney, "The Forward-Backward Algorithm", Proceedings of the Thirty-fourth Annual Allerton Conference on Communication, Control and Computing, October 2-October 4, 1996, pp. 432-446
	AP	Aji, et al., "The Generalized Distributive Law", IEEE Trans. Inform. Theory, 46(2):325-343, March 2000
	AQ	Cormen, et al., "Introduction to Algorithms", The MIT Press, Cambridge, Mass., 1990
	AR	Brent, et al., "A Regular Layout for Parallel Adders", IEEE Transactions on Computers, C-31:260-264, March 1982
	AS	Despain, Chapter 2: "Notes on computer architecture for high performance", in New Computer Architectures, Academic Press, 1984

Examiner Signature 	Date Considered 12/12/2003
EXAMINER: Initials of person considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>[Signature]</i>	AA	5,014,276	5/7/1991	Bush et al.			
<i>[Signature]</i>	AB	5,930,272	7/27/1999	Thesling			
<i>[Signature]</i>	AC	6,233,290	5/15/2001	Raphaeli			
	AD						

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	AG							
	AH							
	AI							

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Examiner Initial	Desig. ID	Document
<i>[Signature]</i>	AJ	Wiberg, "Codes and Decoding on General Graphs", Dept. of Electrical Engineering, Sinkoping University, S-581 83 Sinkoping, Sweden, Dissertation No. 440 (1996)
<i>[Signature]</i>	AK	Chugg et al., "Efficient architectures for soft-output algorithms", Communications, ICC 98, Conference Record, 1998 IEEE International Conference, Vol. 1, pp. 126-130 (1998) •
<i>[Signature]</i>	AL	Divsalar et al., "Hybrid Concatenated Codes and Iterative Decoding", TDA Progress Report 42-130, August 15, 1997 •
<i>[Signature]</i>	AM	Berrou et al., "An IC for Turbo-Codes Encoding and Decoding", IEEE Solid-State Circuits Conference, Digest of Technical Papers, ISSCC 95, Session 5, Paper WP 5.7 (1995) •
<i>[Signature]</i>	AN	Hamkins, "Performance of Binary Turbo-Coded 256-ary Pulse-Position Modulation", TMO Progress Report 42-138, August 15, 1999 •
<i>[Signature]</i>	AO	Berrou et al., "Near Shannon limit error-correcting coding and decoding: Turbo-codes", Communications, ICC 93 Geneva, Technical Program, Conference Record, IEEE International Conference, vol. 2, pp. 1064-1070 (1993) •
<i>[Signature]</i>	AP	Yiin et al., "MLSE and Soft-Output Equalization for Trellis-Coded Continuous Phase Modulation", IEEE Transactions on Communications, vol. 45, no. 6, June 1997, pp. 651-659 •
<i>[Signature]</i>	AQ	Berrou et al., "Near Optimum Error Correcting Coding and Decoding: Turbo-Codes", IEEE Transactions on Communications, vol. 44, no. 10, October 1996, pp. 1261-1271 •

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Substitute Form PTO-1449 (Modified) <b>AUG 02 2002</b> <b>Information Disclosure Statement</b> Applicant (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 06666-077001	Application No. 09/848,778
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### U.S. Patent Documents

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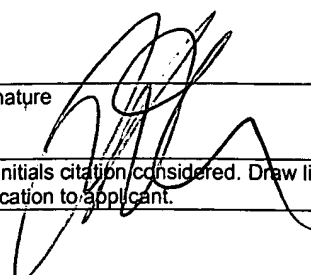
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	AO							
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	AO	Benedetto et al., "Soft-Output Decoding Algorithms in Iterative Decoding of Turbo Codes", TDA Progress Report 42-124, February 15, 1996
	AR	
	AS	
	AT	

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